

College Avenue Bridge Analysis – Appendix G

Typical Bridge Maintenance Costs and Schedules

The following information is a summary of bridge maintenance needs, time frames, and costs that could be anticipated for a routine bridge. Costs are based on today's dollars.

Routine Maintenance and Inspection

Seal Bridge Surface - Performed at 3 year intervals

- Estimated cost at \$0.50/ sq. yd. (\$4,000 for four lane, \$2,000 for two lane)

Clean Bridge Surface and Joints - Performed at two year intervals

- Estimated cost \$4,000 for four lane; \$2,000 for two lane.

Bridge Surface Concrete Patching/Repairs - Estimated to be required at 20+ years

- Variable cost depending on severity/need
- (Estimated at \$2,000 - \$5,000)

Routine Bridge Inspections - Performed on two year intervals

- Estimated cost at \$800 per inspection for a four lane, \$500 for a two lane.

(The estimated inspection cost is based on the cost to supply an inspector. WisDOT typically would supply the inspection vehicle at no cost.)

Note: All the above costs include labor, materials, and equipment. Federal funding is not available for these maintenance activities. Costs shown are computed for bridges with a length similar to the College Avenue Bridge. Two lane bridge maintenance costs reflect the existing bridge width.

Bridge Rehabilitation Maintenance

Bridge Deck Overlay and Joint replacement - Estimated to be required at 30+ years

- Estimated cost at \$10-12/sq. ft. (\$800,000 for four lane bridge and \$500,000 for two lane bridge)

Bridge Deck Replacement - Estimated to be required at 45-50 years

- Estimated cost at \$40-45/sq. ft. (\$3,700,000 for four lane bridge and \$2,200,000 for two lane bridge)

Bridge Replacement - Estimated to be required after 70-80 years

Note: The Bridge rehabilitation maintenance items would typically be performed under let contracts and would typically be eligible for federal funding. Costs are computed for bridges with a length similar to the College Avenue Bridge.